

***WFO Wichita Public Forecast (SOOVER) Statistics  
for Winter '01-'02 (Dec-Feb)***

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**TEMPERATURES**

The following chart compares CCF, FWC, and MAV average absolute error for the 1<sup>st</sup> 4 periods of the public forecast. It shows CCF improvement over the FWC and MAV guidance. The lower the error, the better.

| Station    | Average Absolute Error |             |             | CCF % Improvement over |             |
|------------|------------------------|-------------|-------------|------------------------|-------------|
|            | CCF                    | FWC         | MAV         | FWC                    | MAV         |
| -----      | -----                  | -----       | -----       | -----                  | -----       |
| WICHITA    | 3.79                   | 4.58        | 5.01        | 17.2                   | 24.4        |
| CHANUTE    | 3.66                   | 4.28        | 3.89        | 14.5                   | 5.9         |
| RUSSELL    | 3.69                   | 4.98        | 4.45        | 25.9                   | 17.1        |
| SALINA     | 4.00                   | 5.07        | 4.97        | 21.1                   | 19.5        |
| <b>ALL</b> | <b>3.78</b>            | <b>4.73</b> | <b>4.58</b> | <b>19.9</b>            | <b>17.3</b> |

The following chart shows the percentage of the time in each period that temperature forecasts missed by (+/-) 3 degrees or less. The higher the percentage, the better.

| Station    |                          | CCF        | FWC        | MAV        |
|------------|--------------------------|------------|------------|------------|
| -----      |                          | -----      | -----      | -----      |
| WICHITA    | 1 <sup>st</sup> Pd       | 64%        | 58%        | 50%        |
|            | 2 <sup>nd</sup> Pd       | 56         | 52         | 44         |
|            | 3 <sup>rd</sup> Pd       | 55         | 49         | 44         |
|            | 4 <sup>th</sup> Pd       | 46         | 38         | 42         |
| CHANUTE    | 1 <sup>st</sup> Pd       | 64         | 58         | 67         |
|            | 2 <sup>nd</sup> Pd       | 66         | 48         | 59         |
|            | 3 <sup>rd</sup> Pd       | 52         | 49         | 52         |
|            | 4 <sup>th</sup> Pd       | 43         | 40         | 44         |
| RUSSELL    | 1 <sup>st</sup> Pd       | 66         | 55         | 51         |
|            | 2 <sup>nd</sup> Pd       | 58         | 53         | 52         |
|            | 3 <sup>rd</sup> Pd       | 54         | 41         | 46         |
|            | 4 <sup>th</sup> Pd       | 48         | 37         | 42         |
| SALINA     | 1 <sup>st</sup> Pd       | 63         | 56         | 55         |
|            | 2 <sup>nd</sup> Pd       | 51         | 43         | 40         |
|            | 3 <sup>rd</sup> Pd       | 49         | 39         | 42         |
|            | 4 <sup>th</sup> Pd       | 42         | 29         | 41         |
| <b>ALL</b> | <b>1<sup>st</sup> Pd</b> | <b>64%</b> | <b>57%</b> | <b>56%</b> |
|            | <b>2<sup>nd</sup> Pd</b> | <b>58</b>  | <b>49</b>  | <b>49</b>  |
|            | <b>3<sup>rd</sup> Pd</b> | <b>53</b>  | <b>45</b>  | <b>46</b>  |
|            | <b>4<sup>th</sup> Pd</b> | <b>45</b>  | <b>36</b>  | <b>42</b>  |

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**PRECIPITATION**

The following chart shows average brier scores, average WET PoPs (PoPs on days when we had measurable precipitation), and average DRY PoPs (PoPs on days when we did not have measurable precipitation). The lower the brier score, the higher the WET PoP, and the lower the DRY PoP, the better.

| <b>Station</b>             | <b>CCF</b>   | <b>FWC</b>   | <b>MAV</b>   | <b>CCF % Improvement over</b> |             |
|----------------------------|--------------|--------------|--------------|-------------------------------|-------------|
| -----                      | -----        | -----        | -----        | <b>FWC</b>                    | <b>MAV</b>  |
| <b>WICHITA</b>             |              |              |              |                               |             |
| Average Brier Score        | .042         | .046         | .047         | 8.7                           | 10.6        |
| Average WET PoP            | 48%          | 45%          | 48%          |                               |             |
| Average DRY PoP            | 4%           | 5%           | 7%           |                               |             |
| <b>CHANUTE</b>             |              |              |              |                               |             |
| Average Brier Score        | .057         | .055         | .054         | -3.5                          | -5.3        |
| Average WET PoP            | 45%          | 47%          | 52%          |                               |             |
| Average DRY PoP            | 4%           | 5%           | 7%           |                               |             |
| <b>RUSSELL</b>             |              |              |              |                               |             |
| Average Brier Score        | .034         | .035         | .035         | 2.9                           | 2.9         |
| Average WET PoP            | 49%          | 46%          | 54%          |                               |             |
| Average DRY PoP            | 5%           | 5%           | 8%           |                               |             |
| <b>SALINA</b>              |              |              |              |                               |             |
| Average Brier Score        | .035         | .036         | .037         | 2.8                           | 5.4         |
| Average WET PoP            | 50%          | 49%          | 54%          |                               |             |
| Average DRY PoP            | 4%           | 5%           | 7%           |                               |             |
| <b>ALL</b>                 |              |              |              |                               |             |
| <b>Average Brier Score</b> | <b>.0420</b> | <b>.0430</b> | <b>.0433</b> | <b>2.3%</b>                   | <b>2.9%</b> |
| <b>Average WET PoP</b>     | <b>48%</b>   | <b>47%</b>   | <b>52%</b>   |                               |             |
| <b>Average DRY PoP</b>     | <b>4%</b>    | <b>5%</b>    | <b>7%</b>    |                               |             |